

## **BLANK PAGE**

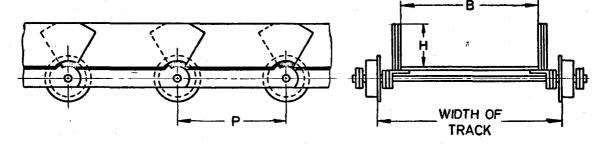




Indian Standard

## DIMENSIONS FOR APRON CONVEYORS

- 1. Scope Lays down the main dimensions of apron conveyors for loose bulk materials.
- 2. Terminology See IS: 4240-1967 'Glossary of conveyor terms and definitions'.
- 3. Dimensions



3.1 The pitch of the chain shall be chosen from the following:

P, mm	63	80	100	125	160	200	250	315	400	500	
					!				'		

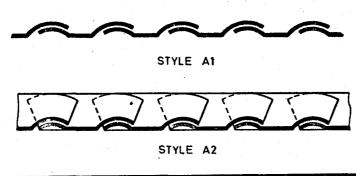
3.2 The width of the apron shall be chosen from the following:

B, mm	160	200	250	3.15	400	500	630	800	1 000	1 250	1 600	2.000	2 500	

3.3 The height of check plates shall be chosen from the following:

 													5
H, mm	40	50	63	80	100	125	160	200	250	315	400	500	

- 3.4 Width of Track The width of track is not standardized as, in addition to depending on the width of apron B, it also depends on the kind of load conveyed and the means of fixing the wheels.
- 4. Styles of Aprons and Their Usages
- 4.1 Style A aprons are used for horizontal and low-incline (20-25°) heavy discharge service. With short pitches they are used in positive feeders. This style is suitable for most bulk materials, including hot, dusty abrasive materials, such as shakeout sand in foundries, limestone in cement mills, and ores in mining. The Style A1 has plain aprons whereas Style A2 has leak-proof pans.

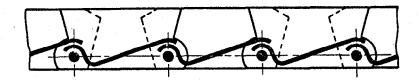


Adopted 23 September 1974

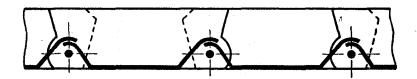
© December 1974, ISI

Gr 1

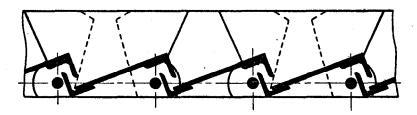
4.2 Style B aprons are designed to provide free and easy discharge and, consequently, low drop of material. This style is especially suited to handle lump material which should not be broken. It is also suitable for wide conveyors and can be used for inclined conveying up to 30 degrees.



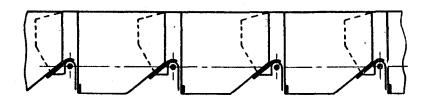
4.3 Style C aprons are used for large capacities of fines and lumps and inclines up to 30 degrees. They require a higher discharge point than Style B. They are suitable for use as feeding, picking, sorting and lowering conveyors.



4.4 Style D aprons are similar to Style B. Built of angles and plates, they are of very strong and rigid construction. These aprons are capable of carrying large quantities of material, such as coal, rock, ores and castings. The aprons have complete discharge with very little drop and breakage of lumps. They have good impact resistance under loading point.



4.5 Style E aprons are super-capacity aprons for handling fine, crushed, or lump materials in very large quantities. They can be used for horizontal conveying or inclined conveying as steep as 45 degrees.



4.6 Style F aprons are usually made of grey or malleable cast iron, and are commonly used for handling hot, gritty materials. When special corrosive materials are to be handled, aprons can be made of corrosion-resistant materials. Shallow aprons are limited to inclined conveying under 25 degrees; deep aprons can be used on inclines as steep as 45 degrees.



## EXPLANATORY NOTE

This standard is in conformity with ISO/R 2410-1971 'Continuous mechanical handling equipment for loose bulk materials, apron conveyors', issued by the International Organization for Standardization.